Fiber-Optic Cable Sensor

UC55PCV3

Part Number



- Adaptable for fiber-optic cables: reflex and through-beam mode
- Adjustable detection range
- Control panel on the side
- Stainless steel housing

These sensors are equipped for use with glass fiber optic cables but can be used with or without one. The transmitter and receiver are located in a single housing. The sensor evaluates transmitted light reflected back from the object and the output is switched as soon as an object passes the selected range. Bright objects reflect more light than dark objects, and can thus be recognized from greater distances.



Technical Data

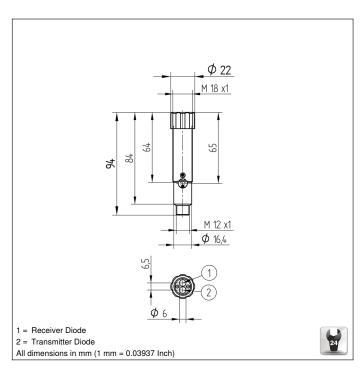
Optical Data					
Range	500 mm				
Switching Hysteresis	< 15 %				
Light Source	Infrared Light				
Service Life (T = +25 °C)	100000 h				
Max. Ambient Light	10000 Lux				
Opening Angle	12 °				
Electrical Data					
Supply Voltage	1030 V DC				
Current Consumption (Ub = 24 V)	< 40 mA				
Switching Frequency	equency 2 kHz				
Response Time	onse Time 250 μ s				
Temperature Drift	< 10 %				
Temperature Range	-2560 °C				
Switching Output Voltage Drop	< 2,5 V				
PNP Switching Output/Switching Current	200 mA				
Residual Current Switching Output					
Short Circuit Protection	otection yes				
Reverse Polarity Protection					
Overload Protection	yes				
Protection Class	tection Class III				
Mechanical Data					
Setting Method	Potentiometer				
Housing Material	Stainless Steel				
Full Encapsulation	yes				
Degree of Protection	IP67				
Connection	M12 × 1; 4-pin				
Contamination Output	•				
PNP NO/NC switchable					
Connection Diagram No.	105				
Control Panel No.	D5				
Suitable Connection Equipment No.	2				
Suitable Mounting Technology No.	150				
Suitable Fiber-Optic Cable Adapter No.	02				

Complementary Products

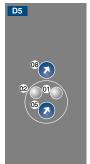
Glass Fiber-Optic Cable

PNP-NPN Converter BG2V1P-N-2M

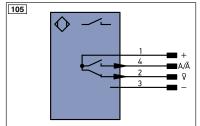




Ctrl. Panel



- 01 = Switching Status Indicator
- 02 = Contamination Warning
- 05 = Switching Distance Adjuster
- 08 = NO/NC Switch



Legen	d		PT	Platinum measuring resistor	ENARS	Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBRS	Encoder B/B (TTL)
-	Supply Voltage 0 V		U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)		Ū	Test Input inverted	ENB	Encoder B
Α		10)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (N	1C)	W -	Ground for the Trigger Input	Амах	Digital output MAX
V		10)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (N	1C)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)		BZ	Block Discharge	SY OL	T Synchronization OUT
Т	Teach Input		Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)		а	Valve Control Output +	М	Maintenance
S	Shielding		b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path		SY	Synchronization	Wire	Colors according to DIN IEC 757
TxD	Interface Send Path		SY-	Ground for the Synchronization	BK	Black
RDY	Ready		E+	Receiver-Line	BN	Brown
GND	Ground		S+	Emitter-Line	RD	Red
CL	Clock		±	Grounding	OG	Orange
E/A	Output/Input programmable		SnR	Switching Distance Reduction	YE	Yellow
•	IO-Link		Rx+/-	Ethernet Receive Path	GN	Green
PoE	Power over Ethernet		Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input		Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output		La	Emitted Light disengageable	GY	Grey
Signal	Signal Output		Mag	Magnet activation	WH	White
	Ethernet Gigabit bidirect, data lii	ne (A-D)		Input confirmation	PK	Pink
ENors422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNY	Green/Yellow









